

**O & M INSPECTION REPORT
FOR NAVIGATION AND SHORE PROTECTION PROJECTS**

1. Project Name: Auasi SBH
2. Date of Inspection: April 12, 2002
3. Inspection Personnel:

	<u>Name</u>	<u>Agency/Office</u>	<u>Telephone No.</u>
a.	Dan Meyers	COE	438-8875
b.	Joel Hendrix	COE	438-1275
c.	Rick Oleniacz	COE	438-1275
d.	Andy Scanlin	Port Administration	633-4141

4. Discussion:

East Breakwater:

Station	Reach	Comments
0+00 to 1+64	#1	Root
1+65 to 1+84	#2A	Trunk
1+85 to 2+79	#2B	Trunk
2+80 to 2+89	#2C	Trunk
2+90 to 3+79	#2D	Trunk
3+80 to 3+90	#3	Head

The major deficiencies were as follows:

Exterior Revetment / Breakwater / East Jetty:



a. Sta. 1+25, OS, monitor bulge at toe (may be sliding beyond original construction).



b. Sta. 1+50, OS, monitor depression on the sideslope adj. the crest.

c. Sta. 2+05, CL, monitor coral wash-up on armor stones filling voids.

- d. Sta. 2+45, HS of crest depression of 8 to 12 inches.



- e. Sta. 2+90, HS, loss of contact @ toe armor stones.

- f. Sta. 3+30, Crest, 1 ea. fractured armor stone, bridging and exposed underlayer.



- g. Sta. 3+00, Crest, Monitor dislodged armor stones, underlayer exposed.



h. Sta. 3+78, Crest, perched armor stone resting on crest.



i. Sta. 3+90, Head, Monitor dislodged toe armor stones.

West Jetty:

Station	Reach	Comments
0+00 to 0+69	#1	Root
0+70 to 4+21	#2	Trunk
4+22 to 4+54	#3	Head

- a. Sta. 0+75, crest, 1 split armor stone.
- b. Sta. 1+40, crest, 1 split armor stone and slight depression.



- c. Sta. 1+80, OS, sideslope depression.
- d. Sta. 1+90, OS, sideslope 1 split armor stone.



e. Sta. 2+25, crest, 2 split armor stone, split due to overblasting at the quarry site during quarrying operation.

f. Sta. 2+48, OS, 1 split armor stone.

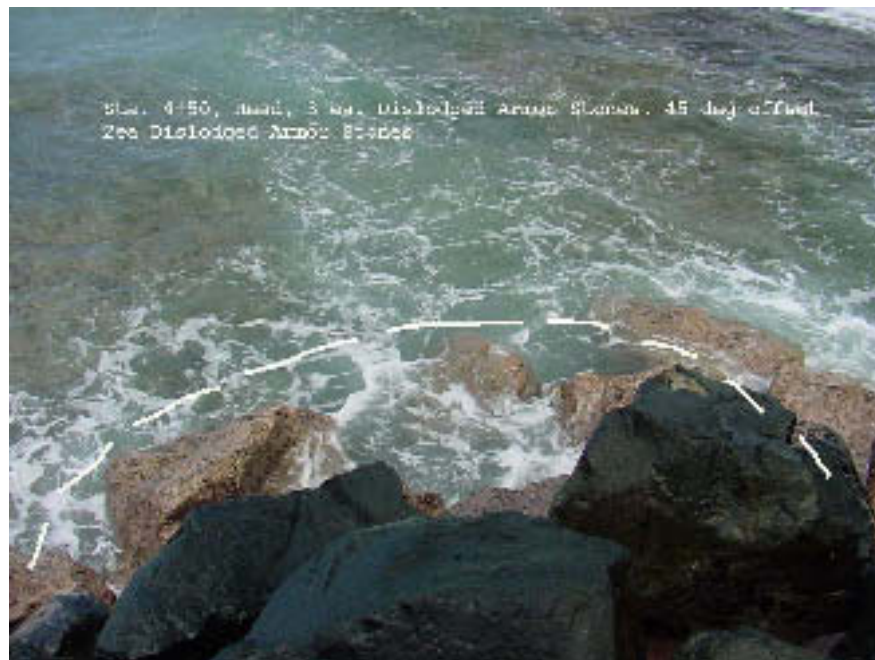
g. Sta. 2+50, OS sideslope slight depression.



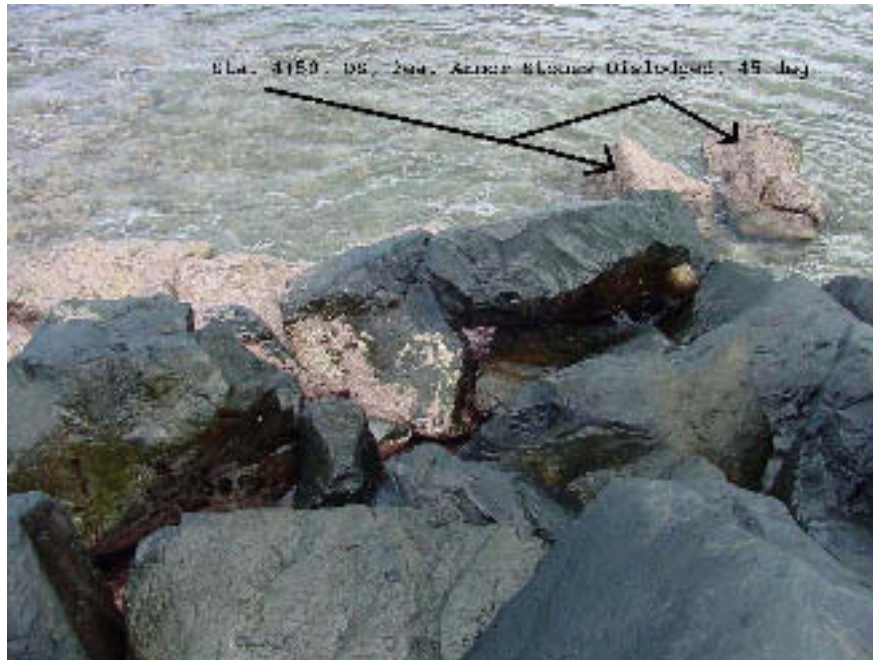
h. Sta. 2+60, HS, 1 split armor stone.



- i. Sta. 3+30, HS, 1 dislodged armor stone at the toe.
- j. Sta. 4+00, HS, 4 armor stones resting 3' from the toe of the structure.



- k. Sta. 4+50, HS, 3 armor stones dislodged 10 degrees offset.



1. Sta. 4+50, OS, 2 armor stones dislodged, 45 degrees offset.

Tide: Low-medium
Wave height: 2-3 feet

5. Findings/Conclusions:

The East Exterior Revetment (165LF) + Breakwater (125LF) + East Jetty (100LF) are evaluated as the East Breakwater (390LF). These structure function primarily as 1 breakwater and for rehabilitation purposes, as they are connected, any impact to one structure will affect all. The major item of concern noted during this inspection was the condition of the West Jetty's head, monitor the armor stones as they may have moved since the last inspection cycle. The overall condition of the project is GOOD.

Signed: _____
Dan Meyers, CEPOH-EC-T

Signed: _____
Jim Pennaz P.E., Ch, CEPOH-EC-T

Attached:
Additional Photos
Project Index Map



Overview of East Jetty, Sta. 0+00 to Sta. 0+40



East Jetty

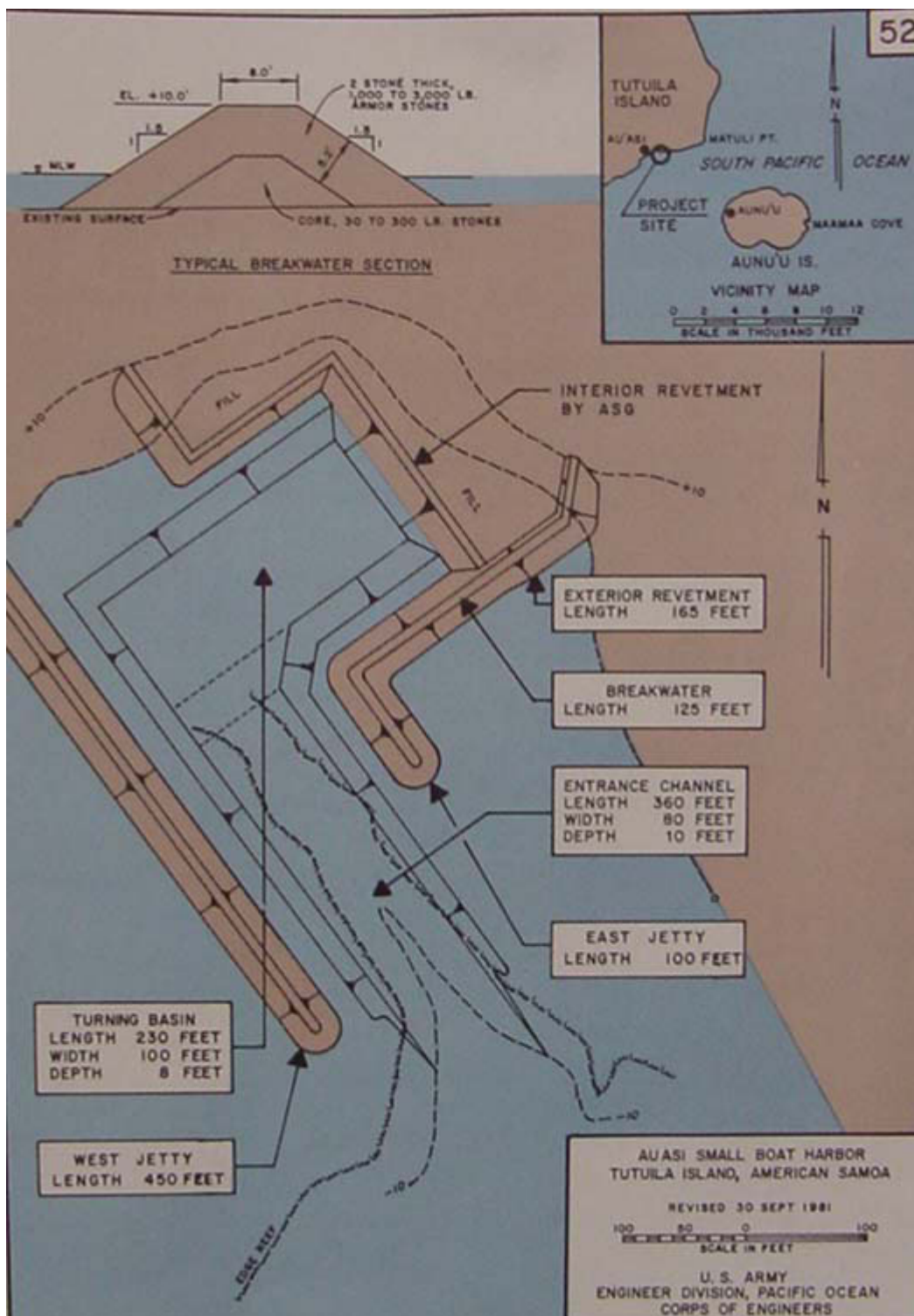


Sta. 0+00, Overview of West Jetty



Sta. 4+50, Overview of West Jetty





AUASI SMALL BOAT HARBOR, AMERICAN SAMOA

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1993

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized for construction on 22 June 1978 under Section 107 of the River and Harbor Act of 1960, as amended. Provides for an entrance channel 360 feet long, 80 feet wide and 10 feet deep; a turning basin 230 feet long, 100 feet wide and 8 feet deep; a breakwater 125 feet long; an exterior revetment 165 long; an east jetty 100 feet long; a west jetty 450 feet long; and appurtenant aids to navigation.

PROGRESS OF WORK

Completed and Under Maintenance: The project was completed in March 1981. A single contract to repair damages to public facilities caused by Hurricane Ofa in February 1990 at Aunuu Harbor and to repair damages to breakwaters caused by Hurricane Val in December 1991 at Aunuu and Auasi Small Boat Harbor was awarded in August 1992 for \$415,000 of which \$20,000 was for Auasi. Repair work at Auasi was completed in February 1993.

Work Remaining: None. Financial completion pending completion of repair work at Aunuu Harbor.

COST OF CONSTRUCTION:

	<u>New Work</u>	<u>Maintenance</u>	<u>Total</u>
<u>Completed Works:</u>			
United States Funds			
Corps of Engineers	\$955,213		\$955,213
Coast Guard	47,076		47,076
Contributed Funds			
Required	86,235		86,235
Other	<u>7,412</u>		<u>7,412</u>
Total Costs	\$1,095,936		\$1,095,936

Uncompleted Works:

United States Funds	<u>\$79,500</u>	<u>\$79,500</u>
Total Estimated Costs	\$79,000	\$79,000

RANGE OF TIDES: The range of tide between mean low water and mean high water is 2.5 feet.